1   1.   A method of storing channel information in a digital television receiver,

2   comprising:

3   tuning to a selected physical channel;

4   reading program specific information on the selected physical channel;

5   storing an indication of whether the physical channel is a PSIP compliant

6   channel;

7   if the selected physical channel is a PSIP compliant channel:

8   storing a TSID corresponding to the selected physical channel; and

9   storing a major channel corresponding to the selected physical

10   channel.

11

12   2.   The method of claim 1, further comprising:

13   incrementing the physical channel;

14   tuning to the incremented physical channel;

15   reading program specific information on the incremented physical channel;

16   storing an indication of whether the incremented physical channel is a PSIP

17   compliant channel;

18   if the incremented physical channel is a compliant PSIP channel:

19   storing a TSID corresponding to the incremented physical channel;

20   and

21   storing a major channel corresponding to the incremented physical

22   channel.

1   3.   The method of claim 2, further comprising after the incrementing,

2   determining if selected physical channel is a last physical channel, and if so, then

3   stopping.

4

5   4.   The method of claim 1, wherein each storing act comprises storing in a

6   lookup table.

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8   5.   The method of claim 4, wherein the lookup table is stored in a non-volatile

9   memory device.

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11   6.   The method of claim 1, wherein each storing act comprises storing in a

12   separate one of three lookup tables.

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14   7.   The method of claim 6, wherein the three lookup tables are stored in a non-

15   volatile memory device.

1   8.   A method of autoprogramming channel information in a digital television

2   receiver, comprising for each of a plurality of N physical channels:

3   tuning to a selected physical channel;

4   reading program specific information on the selected physical channel;

5   storing an indication of whether the physical channel is a PSIP compliant

6   channel;

7   if the selected physical channel is a compliant PSIP channel:

8   storing a TSID corresponding to the selected physical channel; and

9   storing a major channel corresponding to the selected physical

10   channel.

11

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1   9.   A method of storing channel information in a digital television receiver,

2   comprising:

3   tuning to a selected physical channel;

4   reading program specific information on the selected physical channel;

5   storing an indication of whether the physical channel is a PSIP compliant

6   channel;

7   if the selected physical channel is a PSIP compliant channel:

8   storing a TSID corresponding to the selected physical channel;

9   storing a major channel corresponding to the selected physical

10   channel;

11   incrementing the physical channel;

12   tuning to the incremented physical channel;

13   reading program specific information on the incremented physical channel;

14   storing an indication of whether the incremented physical channel is a PSIP

15   compliant channel;

16   if the incremented physical channel is a compliant PSIP channel:

17   storing a TSID corresponding to the incremented physical channel;

18   and

19   storing a major channel corresponding to the incremented physical

20   channel.

21

1   10.   The method of claim 9, further comprising after the incrementing,

2   determining if selected physical channel is a last physical channel, and if so, then

3   stopping.

4

5   11.   The method of claim 9, wherein each storing act comprises storing in a

6   lookup table.

7

8   12.   The method of claim 11, wherein the lookup table is stored in a non-volatile

9   memory device.

10

11   13.   The method of claim 9, wherein each storing act comprises storing in a

12   separate one of three lookup tables.

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14   14.   The method of claim 13, wherein the three lookup tables are stored in a non-

15   volatile memory device.

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